

**REMARKS**

The above claim listing assumes entry of the claim amendment in preliminary amendment submitted on December 13, 2001. If preliminary amendment has not been considered, please contact the undersigned immediately.

The Examiner has rejected claims 1, 3 through 10, 11, 13 through 20, 21 and 23 through 30 under 35 U.S.C. §103 in view of the Ohata et al. reference in view of the Dekimpe et al. reference. However, the Examiner has objected to claims 2, 12 and 22 and has indicated allowable subject matter if the objected claims are rewritten in independent form including all of the limitations of the base claim and any intervening claims. In view of the following remarks, Applicant respectfully requests the Examiner to reconsider the above rejections.

**The Section 103 Rejections**

The Examiner has rejected claims 1, 3 through 10, 11, 13 through 20, 21 and 23 through 30 under 35 U.S.C. §103 in view of the Ohata et al. reference in view of the Dekimpe et al. reference. The Examiner has pointed out with respect to independent claims 1, 11 and 21 that the Ohata et al. reference allegedly teaches a predetermined rule for generating hierarchical definitions for dimensional members in figures 4 and 5 as well as registration of dimensional members in hierarchical or layer information at lines 1 through 31 in column 6 and in figures 4 through 6. The Examiner has also pointed out with respect to independent claims 1, 11 and 21 that the Ohata et al. reference allegedly teaches the determination as to whether or not a page is registered for the dimensional members in figures 1 and 16 and at lines 47 in column 9 through line 5 in column 13. However, the Examiner has conceded that the Ohata et al. reference "does not explicitly disclose the determination step in relation to a dimension member." For the lack of the above disclosures, the Examiner has cited the DeKimpe et al. reference in the Abstract and at lines 11 through 32 in column 15. The Examiner has pointed out that the cited

portion of the DeKimpe et al. reference allegedly teaches “a created multidimensional model can be updated in relation to dimension members for better analysis.” In view of the following remarks, Applicant respectfully request the Examiner to reconsider the pending rejection under 35 U.S.C. §103.

Independent claims 1, 11 and 21 each explicitly recite “generating the corresponding layer information according to a predetermined layer rule” in its absence. Subsequently, independent claims 1, 11 and 21 also each explicitly recite “registering the corresponding layer information in the layer structure information.” In other words, the current invention as explicitly recited in independent claims 1, 11 and 21 calls for “the corresponding layer information” to be generated and registered in “the layer structure information” for a newly inputted member if “the corresponding layer information” is absent. As explicitly recited in the preamble, “the layer structure information represent[s] layer structure of members in the multidimensional database.”

In contrast to the current invention, the disclosures of the cited references alone or in combination fail to teach, disclose or suggest the above patentable features as explicitly recited in independent claims 1, 11 and 21. The Ohata et al. reference discloses at lines 39 through 50 in column 11 the step 108 in figure 1, where it is determined whether or not the page for the entry has been already assigned. When it is determined in the step 108 that the page has not been assigned, an unused page is assigned in the step 109. In the step 110, “the page number of the page assigned in step 109 is registered in the page number field 803 of the page index entry examined in step 108 and the process proceeds to step 111.” The Ohata et al. reference also discloses at lines 49 through 61 in column 17 the step 1603 in figure 16, where it is determined whether or not the page for the entry has been already assigned. When it is determined in the step 1603 that the page has not been assigned, an unused page is assigned in the step 1604. In the step 1605, “the page number of the page assigned in step 1604 is registered in the page number field 803 of the page index entry examined in step 1603 and the process proceeds to step 1606.”

As described above, no “corresponding layer information” is generated in the absence of the corresponding entry.

Similarly, the DeKimpe et al. reference also fails to teach, disclose or suggest the above patentable features as explicitly recited in independent claims 1, 11 and 21. The Examiner has pointed out that the cited portion of the DeKimpe et al. reference allegedly teaches “a created multidimensional model can be updated in relation to dimension members for better analysis” in the Abstract and at lines 11 through 32 in column 15. The DeKimpe et al. reference discloses that “a user has to nominate a member for that dimension with which the current data in the cube is associated.” Although the values in the added member may be “initialized” as disclosed at lines 24 through 32 in column 15, no “corresponding layer information” is generated.

As discussed above, the cited references alone or in combination fails to teach, disclose or suggest “the corresponding layer information” to be generated and registered in “the layer structure information” for a newly inputted member if “the corresponding layer information” is absent as explicitly recited in independent claims 1, 11 and 21. Thus, it would not have been obvious to one of ordinary skill in the relevant art to provide the patentable features as explicitly recited in independent claims 1, 11 and 21 based upon the disclosures of the cited references alone or in combination. Dependent claims 3 through 10, 13 through 20 and 23 through 30 ultimately depend from independent claims 1, 11 or 21 and incorporate the above discussed patentable features. Therefore, Applicant respectfully submit that the rejections of claims 1, 3 through 10, 11, 13 through 20, 21 and 23 through 30 under 35 U.S.C. §103 should be withdrawn.

#### The Newly Added Claims

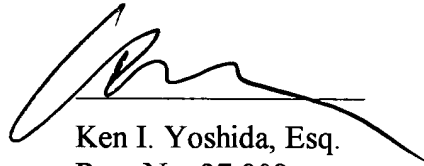
Applicant respectfully requests the Examiner to allow the newly added claims. The newly added claims are supported by the original disclosures of the current

application, and no new matter has been introduced to the current application. As indicated by the Examiner in the pending Office Action, newly added independent claims include the subject matter limitations of the objected claims and their intervening claims. Namely, newly added independent claims 31, 32 and 33 respectively include the allowable subject matter limitations of claims 1 and 2; 11 and 12; and claims 21 and 22. Thus, Applicant respectfully submits to the Examiner that newly added claims 31, 32 and 33 should be entered and allowed.

**Conclusion**

In view of the above amendments and the foregoing remarks, Applicant respectfully submits that all of the pending claims are in condition for allowance and respectfully request a favorable Office Action so indicating.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Ken I. Yoshida', is written over a horizontal line.

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